



ORIGINAL

# NEW APPLICATION



0000112879

Arizona Department of Transportation

Intermodal Transportation Division

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Janice K. Brewer  
Governor

John S. Halikowski  
Director

Floyd Roehrich Jr.  
State Engineer

May 29 2010  
Arizona Corporation Commission

DOCKETED

JUN 10 2010

DOCKETED BY	nr
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RECEIVED  
2010 JUN 10 P 12:28  
ARIZONA CORPORATION COMMISSION  
DOCKET CONTROL

Arizona Corporation Commission  
Office of Railroad Safety  
Attn: Chris Watson  
1200 W Washington Street  
Phoenix, AZ 85007

RE: Application to replace existing cantilevered flashing lights  
Project: Lincoln Street Signals  
Federal Project # RRS-STP-000-6(052)P  
ADOT Tracs # 0940 MA PHX SR061 01C  
Union Pacific Railroad crossing AAR/DOT # 741 492 D

Mr. Watson,

RR-03639A-10-0233

This application is being submitted to allow the Union Pacific Railroad (UPRR) to install 3 cantilevers to provide train warning to the traveling public. This work was identified thru the 1998 array and numerous onsite diagnostic meetings. The project was modified to provide train warning when Lincoln Street experiences both normal 2 way traffic and East bound only traffic using all lanes. The first phase of the project consisted of installing concrete crossing and was completed in 2007.

## 1. Project Location and Description

The project is located on Lincoln Street just west of 6<sup>th</sup> Street in Phoenix. UPRR uses the track as a drill track with infrequent crossings. Lincoln street is 5 lanes wide and is normally used for 2 way traffic, consisting of 2 west bound and 3 east bound lanes. Lincoln can be switched to 5 lane east bound only traffic during sporting events.

The project consists of building 3 cantilevers. 2 cantilevers will cover the normal 2 way traffic and will replace the existing undersized cantilevers. A 3<sup>rd</sup> cantilever will cover the west bound lanes when they are used for east bound traffic. A draft UPRR signal installation map is installed to show the work.

## 2. Why the crossing is needed

Based on the 1998 crossing improvement array, this crossing was selected for upgrades to the signals by installing the cantilevers and installing a concrete crossing surface. The concrete surface has already been installed. Cantilevered and gate mounted flashing lights will now cover each traffic lane.

## 3. Construction Phasing

Once an opinion and order is issued, UPRR will acquire and install the signal equipment within 12 to 15 months.

**4. Maintenance of the crossing**

UPRR will be responsible for installing and maintaining the crossing surface and signal equipment. City of Phoenix will be responsible for maintaining the road approaches outside of UPRR responsibility.

**5. Project Funding**

100% of the funding will be provided thru the Federal Highway Administration thru their Section 130/highway-railroad crossing safety improvement program.

Costs are as follows:

UPRR Signal Cost	\$347,210.00
UPRR Surface Cost	<u>\$167,029.00</u>
Total Cost	\$514,239.00

**6. Other information (based on typical Staff Data Requests):**

1. Provide Average Daily Traffic Counts for each of the locations. 7,300 ADT in 2005
2. Please describe the current Level of Service (LOS) at each intersection. Level A
3. Provide any traffic studies done by the road authorities for each area. None known
4. Provide the population of the City the crossing is located in. 2008 census: 1,552,000 persons.
5. Provide what warning devices are currently installed at the crossing.

Gate mounted warning lights and single lane cantilevers in each direction.

6. Provide distances in miles to the next public crossing on either side of the proposed project location. Are any of these grade separations?

Grant Street (AAR/DOT 741 493 K) is at-grade and 500 ft south . Buchanan Street (AAR/DOT 741 484 L) is also a- grade and is 200 feet to the north of the crossing.

7. How and why was grade separation not decided on at this time? Please provide any studies that were done to support these answers.

No studies completed. Grade separation not considered as part of this Section 130 safety upgrade.

8. If this crossing was grade separated, provide a cost estimate of the project.

Unknown costs. Estimate \$30,000,000++ due to urbanized location.

9. Please describe what the surrounding areas are zoned for near this intersection. i.e. Are there going to be new housing developments, industrial parks etc.

Surrounding area zoned commercial and industrial. Chase Field/ Large sporting venue located just Northwest of this crossing.

10. Please supply the following: number of daily train movements through the crossing, speed of the trains, and the type of movements being made (i.e. thru freight or switching). Is this a passenger train route? \_\_\_\_\_

No passenger traffic.

UPRR anticipates switching movements only with 3 engines/day 10 mph maximum.

11. Please provide the names and locations of all schools (elementary, junior high and high school) within the area of the crossing.

Silvestre S. Herrera Elementary School located 2 miles SE of crossing.  
1350 S 11<sup>th</sup> Street, Phoenix, AZ 85034-4537

12. Please provide school bus route information concerning the crossing, including the number of times a day a school bus crosses this crossing.

Per Sheri Thompson (602-257-3800), Bus Transportation Coordinator for Silvestre S. Herrera School, The school is east of the crossing and their bus barn/storage area is west of the crossing. Bus uses this crossing 40 times per day. Most but not all of the crossing trips are empty buses.

13. Please provide information about any hospitals in the area and whether the crossing is used extensively by emergency service vehicles.

Not used exclusively by emergency services.

Promise Hospital (1 mile SW)  
1201 South 7<sup>th</sup> Avenue  
Phoenix, AZ

Maricopa Medical Center (2.6 miles NE)  
2601 E Roosevelt St  
Phoenix, Az

14. Please provide total cost of the railroad improvements to each crossing.

Cost described above.

15. Provide any information as to whether vehicles carrying hazardous materials utilize this crossing and the number of times a day they might cross it.

No known data. However, Lincoln Street is part of the City of Phoenix designated Thru Truck route, allowing unlimited truck access.

16. Please provide the posted vehicular speed limit for the roadway.  
Speed limit is 45 mph

17. Do any buses (other than school buses) utilize the crossing, and how many times a day do they cross the crossing.

Bus traffic varies depending on sporting events.

18. Please indicate whether any spur lines have been removed within the last three years inside a 10 mile radius of any crossings covered in this application. Please include the reason for the removal, date of the removal and whether an at-grade crossing or crossings were removed in order to remove the spur line. Private spur just west of this crossing (and at-grade crossing) removed in the recent past.

2 side spurs removed at Grant Street, just south of this application (including 2 at-grade crossings).  
1 private spur just west of this crossing removed within last 10 years (Lincoln Street just west of 5<sup>th</sup> Street).

This track is part of the UPRR Riverlead, which was removed south of Grant Street approximately 500 ft south of this crossing. Numerous at-grade crossings were removed as part of this abandonment in 2008.

19. Please fill in the attached FHWA Grade Separation Guidelines Table, (from FHWA's 2007 revised second edition Railroad Highway Grade-Crossing Handbook, page 151) with a yes or no answer as to whether each item applies. Also, please provide all information to support your answers of yes or no (i.e. vehicle delay numbers, any calculations that were performed to get the answers).

Per FHWA Railroad-Highway Grade Crossing Handbook, Page 58:

$K = 0.001088$

$CxT = 21,900$ ;  $EI = 37.49$

Tracks = 1 ;  $MT = 1.34$

DT, HP, Speed factors = 1

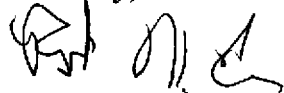
5 traffic lanes ;  $HL = 1.51$

Thus:  $0.001088 * 37.49 * 1.34 * 1 * 1 * 1 * 1.51 = 0.0439$

20. Based on the current single track configuration at the crossings specified by this application, please provide the current traffic blocking delay per train. Please indicate the time in which vehicular traffic is delayed (1) to allow the train to pass at a crossing and (2) due to trains stopped on the track for any purpose. The delay is measured from the point that the warning devices are activated at the crossing to the time after the train has cleared the crossing and the warning devices are reset.

No known excessive delays due to railroad operations.

Sincerely,



Robert Travis, PE  
State Railroad Liaison  
Arizona Department of Transportation  
205 S 17th Ave, Room 357  
MD 618E  
Phoenix, AZ 85007  
602-712-6193 602-712-3229 fax  
[rtravis@azdot.gov](mailto:rtravis@azdot.gov)

enclosures

cc: Marcel Benberou, ADOT  
Belinda Cumings, City of Phoenix  
Aziz Aman, Union Pacific Railroad  
File

**right of way whenever one or more of the following conditions exist:  
Lincoln Street (DOT 741 492 D)**

The highway is a part of the designated Interstate Highway System	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	No			
The highway is otherwise designed to have full controlled access	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	No			
The posted highway speed equals or exceeds 70 mph	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	No			
AADT exceeds 100,000 in urban areas or 50,000 in rural areas	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	No			
Maximum authorized train speed exceeds 110 mph	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	No			
An average of 150 or more trains per day or 300 million gross tons/year	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	No			
Crossing exposure (trains/day x AADT) exceeds 1M in urban or 250k in rural; or passenger train crossing exposure exceeds 800k in urban or 200k in rural	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	unknown. Assume no			
Expected accident frequency for active devices with gates, as calculated by the US DOT Accident Prediction Formula including five-year accident history, exceeds 0.5	Crossing Currently meets the criteria	No- 0.0439			
	Crossing meets the criteria by 2030	Unknown. Assume No			
Vehicle delay exceeds 40 vehicle hours per day	Crossing Currently meets the criteria	No			
	Crossing meets the criteria by 2030	unknown. Assume no			

CONFIDENTIAL SOURCE OF INFORMATION

TO WHOM IT MAY CONCERN:



⊗ • TWISTED WIRES  
ALL TRACK WIRES 25.0¢  
INSULATED TWIST PER FT.

41. LOST TO BE 121 NUMBER 176

**SHOT BY** **SMITH**

7130 2.42  
23.2 IN43  
23.8 IN43  
24.5 IN43

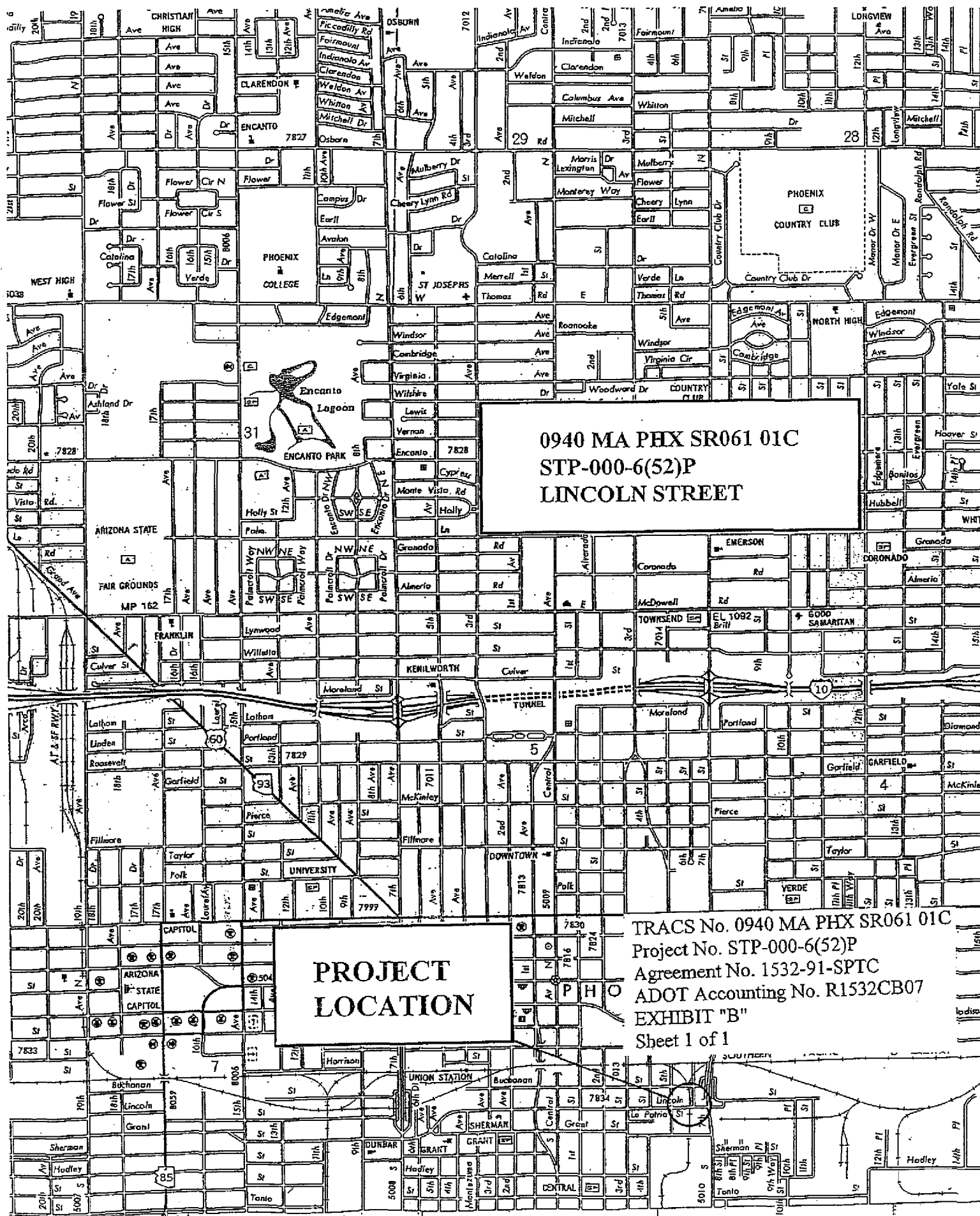
- 1.) SERVICE PILE A PRIESTAL TO BE RELOCATED TO THE NEAREST CEMETARY.
- 2.) ALL CANTILEVERS ARE TO BE REINFORCED PER EACH SPECIFIC STANDARD. ANY SIGNIFICANT OBSTRUCTIONS WITH CITY OWNED FIXTURES WILL BE ADDRESSED BY THE AOC A CITY OF PHOENIX.
- 3.) CITY TO RECONSTRUCT SIDEWALKS AROUND CANTILEVER.

\* = FIELD PROVIDE DIMENSION

NEW SHEET

PHOENIX, ARIZONA  
5116 L. SHEGLIN  
M.P. 402.50  
PHOENIX YARD D2  
OFF PHOENIX SUBDIVISION  
C.O.T. = 741.4920

[illegible]



0940 MA PHX SR061 01C  
STP-000-6(52)P  
LINCOLN STREET

PROJECT  
LOCATION

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP-000-6(52)P  
Agreement No. 1532-91-SPTC  
ADOT Accounting No. R1532CB07  
EXHIBIT "B"  
Sheet 1 of 1



**ADOT**  
Janet Napolitano  
Governor

Victor M. Mendez  
Director

# **Arizona Department of Transportation**

## **Intermodal Transportation Division**

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Richard L. Travis  
Deputy Director

April 25, 2007

### **RAILROAD CROSSING PROJECT**

TRACS No.: 0940 MA PHX SR061 01C

Project No.: STP-000-6(52)P

Location: Lincoln Street

AAR/DOT No.: 741-492-D

RR M.P.: 906.80C

ADOT Accounting No.: R1532CB07

### **RAILROAD AGREEMENT**

**For**

**FEDERAL AID**

**Railroad Crossing Projects**

### **UNION PACIFIC RAILROAD COMPANY**

**Agreement No. 1532-91-SPTC**

**RAIL/HIGHWAY SAFETY PROGRAM**



DATE: 2007-05-10

ESTIMATE OF MATERIAL AND FORCE ACCOUNT WORK  
BY THE  
UNION PACIFIC RAILROAD

THIS ESTIMATE GOOD FOR 6 MONTHS EXPIRATION DATE IS :2007-11-08

## DESCRIPTION OF WORK:

2007 RECOLLECTIBLE PROJECT  
M.P. 905.58 PHOENIX SUBDIVISION  
6TH & LINCOLN STREET, PHOENIX, AZ. DOT #741492D  
INSTALL 80 T.F. OF CONCRETE CROSSING SURFACE  
COST: 100% STATE OF ARIZONA (FEDERAL)

PID: 58952 AWO: 84100 MP, SUBDIV: 905.58, PHOENIX  
SERVICE UNIT: 16 CITY: PHOENIX STATE: AZ

DESCRIPTION	QTY	UNIT	LABOR	MATERIAL	RECOLL	UPRR	TOTAL
<b>ENGINEERING WORK</b>							
CONTRACT - PRELIM ENGR				10000	10000		10000
ENGINEERING			1000		1000		1000
LABOR ADDITIVE 208%			2080		2080		2080
<b>TOTAL ENGINEERING</b>			3080	10000	13080		13080
<b>SIGNAL WORK</b>							
LABOR ADDITIVE 208%			2617		2617		2617
SALES TAX				7	7		7
SIGNAL			1258	176	1434		1434
<b>TOTAL SIGNAL</b>			3875	183	4058		4058
<b>TRACK &amp; SURFACE WORK</b>							
BALAST	2.00	CL	1895	1333	3228		3228
BILL PREP				900	900		900
CONTINGENCY - 20%				27838	27838		27838
CONTRACT - TRAFFIC CONTROL, SAW CUT				13000	13000		13000
FIELD WELD			265		265		265
FOREIGN LINE FREIGHT				783	783		783
HOME LINE FREIGHT				900	900		900
LABOR ADDITIVE 208%			36156		36156		36156
MATL STORE EXPENSE				904	904		904
OTM			3036	5126	8162		8162
RAIL	320.00	LF	607	5510	6117		6117
RDXING	80.00	TF	2713	12873	15586		15586
SALES TAX				1556	1556		1556
SWTIE	38.00	EA	8997	3322	12319		12319
TRK-SURE, LIN			2375		2375		2375
WELD			3530	907	4437		4437
XTIE	151.00	EA	5486	9879	15365		15365
<b>TOTAL TRACK &amp; SURFACE</b>			65060	84831	149891		149891
<b>LABOR/MATERIAL EXPENSE</b>							
			72015	95014			
RECOLLECTIBLE/UPRR EXPENSE					167029	0	
<b>ESTIMATED PROJECT COST</b>							167029
EXISTING REUSEABLE MATERIAL CREDIT					0		
SALVAGE NONUSEABLE MATERIAL CREDIT					0		

RECOLLECTIBLE LESS CREDITS

THE ABOVE FIGURES ARE ESTIMATES ONLY AND SUBJECT TO FLUCTUATION. IN THE EVENT OF AN INCREASE OR DECREASE IN THE COST OR QUANTITY OF MATERIAL OR LABOR REQUIRED, UPRR WILL BILL FOR ACTUAL CONSTRUCTION COSTS AT THE CURRENT EFFECTIVE RATE.

□

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP-000-6(52)P  
Agreement No. 1532-91-SPTC  
ADOT Accounting No. R1532CB07  
EXHIBIT "A"

## SUMMARY OF ESTIMATE

Total

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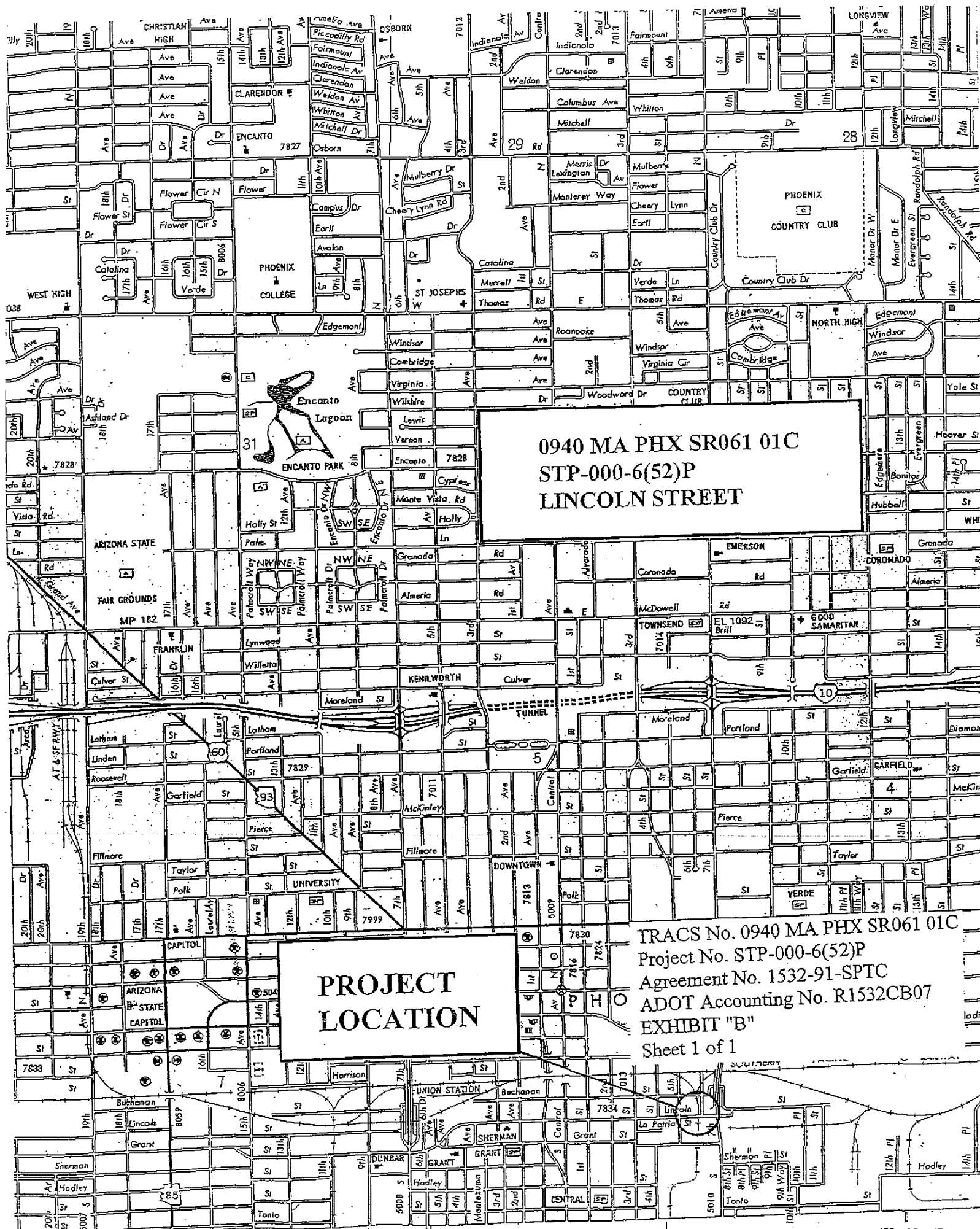
Preliminary Engineering: \$10,000.00

Construction:

Surface \$157,029.00  
\*\$167,029.00

\*Railroad will invoice ADOT for 100% of total work.  
Railroad will separate Preliminary Engineering costs  
from Construction costs.

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP-000-6(52)P  
Agreement No. 1532-91-SPTC  
ADOT Accounting No. R1532CB07  
EXHIBIT "A"  
Sheet 1 of 2



0940 MA PHX SR061 01C  
STP-000-6(52)P  
LINCOLN STREET

PROJECT  
LOCATION

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP-000-6(52)P  
Agreement No. 1532-91-SPTC  
ADOT Accounting No. R1532CB07  
EXHIBIT "B"  
Sheet 1 of 1

STATE OF ARIZONA  
DEPARTMENT OF TRANSPORTATION

Agreement No. 1532-91-SPTC

Agreement Addendum No. 1

Company's Name: The Union Pacific Railroad Company

Address: 101 S. Watson Road, Arlington, TX 76010

The purpose of this addendum is to modify the Company name as stated herein:

WHEREAS: Agreement No. 1532-91-SPTC terms the "RAILROAD" as SOUTHERN PACIFIC TRANSPORTATION COMPANY.

WHEREAS: Agreement No. 1532-91-SPTC is revised to term the "RAILROAD" as the UNION PACIFIC RAILROAD COMPANY.

THEREFORE: The parties hereto agree that Agreement No. 1532-91-SPTC is hereby amended as shown herein. All other provisions of Agreement No. 1532-91-SPTC shall remain unabrogated.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

ARIZONA DEPARTMENT OF TRANSPORTATION

UNION PACIFIC RAILROAD COMPANY

By

William R. Briscoe  
WILLIAM R. BRISCOE, P.E.  
J. Patrick Hackett  
Utility & Railroad Engineering Section

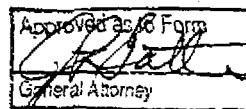
Date

2-18-99

By

Thomas J. Gee  
CHIEF ENGINEER

Date



A. G. CONTRACT NO. KR95-1689-T1

**ARIZONA DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

UTILITY AND RAILROAD ENGINEERING SECTION

MASTER  
RAILROAD AGREEMENT  
For  
FEDERAL AID  
Railroad Crossing Projects

SOUTHERN PACIFIC TRANSPORTATION COMPANY  
Agreement No. 1532-91-SPTC  
RAIL/HIGHWAY SAFETY PROGRAM

THIS AGREEMENT by and between SOUTHERN PACIFIC TRANSPORTATION COMPANY, a Delaware corporation, herein termed "RAILROAD," and STATE OF ARIZONA, DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, herein termed "STATE".

WITNESSETH:

The parties hereto desire to set forth by this instrument their understanding and agreements with respect to the installation, at various times, of railroad warning devices and/or surface crossing materials with track rehabilitation, if required, throughout the State of Arizona, where a roadway crosses the property and tracks of RAILROAD.

Agreement No. 1532-91-SPTC

AGREEMENT:

NOW THEREFORE, it is mutually agreed as follows:

1. The work to be performed by RAILROAD under this agreement is hereinafter referred to as "PROJECT".

2. RAILROAD agrees to furnish all labor, materials, tools, and equipment necessary to install such warning devices including necessary actuating and operating circuits and adequate instrument housing and/or roadway crossing materials with track rehabilitation, if required, upon its property at certain designated grade crossings.

Said installation shall comply with the latest standards prescribed by the Association of American Railroads and the Manual On Uniform Traffic Control Devices, Part VIII.

3. RAILROAD will prepare both a cost estimate, marked Exhibit "A" and a location plan marked, Exhibit "B", showing the general details of each PROJECT and send them to STATE for acceptance.

4. It is agreed that the work to be performed by RAILROAD is a part of a Federal-Aid project. Pursuant to the provisions of Federal-Aid Policy Guide Subchapter G, Part 646 Subpart B, there is no ascertainable net benefit to RAILROAD, and STATE agrees to reimburse RAILROAD for one hundred percent (100%) of the cost and expense incurred by RAILROAD in furnishing of materials and performing the work as described in the Cost Estimate, marked EXHIBIT "A", attached to and made a part hereof.

5. It is understood and agreed that the STATE is acting solely as an agent for the project sponsor in securing and administering Federal funds and STATE assumes no other liability hereunder for the project sponsor.

6. Prior to commencing construction of each PROJECT, Railroad agrees to notify STATE, in writing, of the actual construction start date. Upon completion of each PROJECT, RAILROAD agrees to notify STATE, in writing, of the actual completion date. The construction start date shall not be prior to receiving a notice to proceed from STATE. Construction progress payments shall not be made without the actual construction start date. Final payment shall not be made without the actual construction completion date.

7. The work for each PROJECT shall be performed by RAILROAD forces on an actual cost basis, and as supported by the analysis of estimated costs set forth in Exhibit "A". The actual cost shall be payable in payments as follows:

- a. RAILROAD will order the materials for each PROJECT, and may invoice the STATE upon receipt, for materials and related costs, as set forth in Exhibit "A".
- b. RAILROAD may submit monthly invoices for work performed and materials installed unless invoiced under subparagraph a.
- c. Minimum payment, except for final invoice, is \$5,000.
- d. Upon completion of all work under each PROJECT, RAILROAD shall arrange for a joint close-out inspection of the completed PROJECT. Upon determination by STATE that the work has been completed in accordance

with Exhibits "A" and "B", RAILROAD will submit final and complete invoice to the STATE. STATE agrees to pay RAILROAD the difference between the final invoice and any previous payments for PROJECT. Any amount with which STATE disagrees shall be paid under protest, subject to resolution.

- e. All invoices will be paid by STATE within sixty (60) days of receipt.

All expenses incurred by RAILROAD for work which STATE is obligated to reimburse RAILROAD hereunder, including all work incidental to such work but not specifically mentioned herein, shall be subject to the provisions of the Federal-Aid Policy Guide Subchapter B Part 140 Subpart I.

8. Pursuant to A.R.S. Sections 35-214, 35-215 and 41-1279.04, the books of RAILROAD shall be open for inspection and audit by authorized representatives of STATE and the Federal Government for a period of not less than five (5) years from the date final payment has been received by RAILROAD. State agrees to pay RAILROAD any sums found to be owing as a result of an audit within sixty (60) days of receipt of the audit by the Utility and Railroad Engineering Section of STATE. RAILROAD agrees to reimburse STATE, within sixty (60) days of notification for any amount STATE disallows as a result of its audit. Any audit exceptions with which RAILROAD disagrees shall be paid to STATE under protest subject to resolution.

9. All invoices shall contain STATE's project number and agreement number. The invoice shall be sent to:



ARIZONA DEPARTMENT OF TRANSPORTATION  
Utility and Railroad Engineering Section  
205 South 17th Ave. Mail Drop 618E  
Phoenix, Arizona 85007-3212

10. Once installation of railroad warning devices and/or roadway crossing material has been completed, RAILROAD shall maintain, in kind, the railroad warning devices and the crossing material two feet outside of each rail as long as they remain in place. However, RAILROAD shall be entitled to receive any contribution toward the cost of such maintenance as may be now or hereafter made available by means of any law, ordinance, regulation, order, grant or by other means or sources.

11. Claims and disputes between STATE and RAILROAD involving sums less than \$100,000 and arising out of the terms of this Agreement relating to work performed, invoicing and similar matters, shall be subject to arbitration, at the request of either party, in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association then obtaining; provided, however, that claims or disputes arising out of personal injury, death, property damage, or environmental incidents shall not be subject to arbitration without the concurrence of both parties, except to the extent otherwise required by the rules of Arizona courts.

12. In compliance with the regulations of the United States Department of Transportation, RAILROAD hereby agrees to comply fully with all of the provisions of Appendix "A", attached hereto and by this reference made a part of this Agreement; provided, however, that Appendix "A" shall be applicable only in those cases where RAILROAD does not perform the work contemplated in this Agreement with its own forces.

13. This Agreement is subject to the budgetary limitations set forth in Arizona Revised Statutes Subsection 28-1823 through 28-1826 inclusive and is further subject to the provisions of Chapter 1 of Title 35, Arizona Revised Statutes.

14. STATE and RAILROAD each agrees to be liable to the other party for its own acts of negligence and the negligence of its own employees.

15. This Agreement shall inure to the benefit of and be binding upon the successors and assigns of RAILROAD and the assigns of STATE.

16. RAILROAD is required to comply with Executive Order 75-5, "Non-Discrimination in Employment by Government Contractors and Subcontractors," which is hereby included in its entirety by reference and considered a part of this Agreement.

17. Pursuant to A.R.S. Subsection 38-511, STATE may cancel this Agreement, without penalty or further obligation, if any person significantly involved in initiating, negotiating, securing, drafting or creating the Agreement on behalf of STATE or any of its departments or agencies is, at any time while this Agreement or any extension of it is in effect, an employee of any other party to this Agreement with respect to the subject matter of this Agreement.

:  
:  
:  
:  
:  
:

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year signed by both parties.

SOUTHERN PACIFIC  
TRANSPORTATION COMPANY

ARIZONA DEPART. OF TRANSPORTATION  
HIGHWAY DIVISION

By  
Its

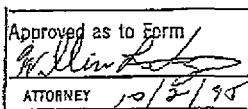
James L. Moller  
MANAGER - CONTRACTS

By

William R. Briscoe  
Manager of Utility & Railroad  
Engineering Section

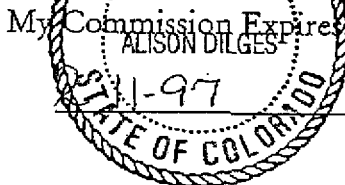
Date October 2, 1995

Date 10-17-95



STATE OF COLORADO )  
 ) ss.  
COUNTY of DENVER )

The foregoing instrument was acknowledged before me this 2nd day of October, 1995, by Ms. J. L. Moller, the MANAGER-CONTRACTS of SOUTHERN PACIFIC TRANSPORTATION COMPANY, a Delaware corporation, on behalf of the corporation.



Notary Public

Alison Dilges

My Commission Expires 2-11-97

STATE OF ARIZONA )  
 ) ss.  
COUNTY of MARICOPA )

The foregoing instrument was acknowledged before me this 17 day of October, 1995 by William R. Briscoe, the Manager of Utility and Railroad Engineering Section of the Arizona Department of Transportation, on behalf of the STATE.

My Commission Expires:

My Commission Expires March 25, 1999

Notary Public

Connie Marie [Signature]

Agreement No. 1532-91-SPTC

APPENDIX A  
(Revised)

II EQUAL OPPORTUNITY

1. Selection of Labor:

During the performance of this contract, the contractor shall not discriminate against labor from any other State, possession or territory of the United States.

2. Employment Practices:

During the performance of this contract, the contractor agrees as follows:

a. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the State highway department setting forth the provisions of this nondiscrimination clause.

b. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

c. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State highway department advising the said labor union or workers' representative of the contractors commitments under this section II-2 and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations (41 CFR, Part 60) and relevant orders of the Secretary of Labor.

e. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records and accounts by the Federal Highway Administration and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.

f. In the event of the contractor's noncompliance with the non-discrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or Federally-assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation or order of the Secretary of Labor, or as otherwise provided by law.

g. The contractor will include the provisions of this Section II-2 in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the State highway department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the Federal Highway Administration, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

3. Selection of Subcontractors, Procurement of Materials, and Leasing of Equipment:

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

a. Compliance With Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time. (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

b. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

c. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

d. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State highway department or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information the contractor shall so certify to the State highway department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

e. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the State highway department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

- (1) withholding of payments to the contractor under the contract until the contractor complies, and/or
- (2) cancellation, termination or suspension of the contract, in whole or in part.

f. Incorporation of Provisions: The contractor shall include the provision of this paragraph 3 in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontractor or procurement as the State highway department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the State highway department to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

**STATE OF ARIZONA  
DEPARTMENT OF TRANSPORTATION**

TRACS No.: 0940 MA PHX SR061 01C  
Project No.: STP-000-6(052)P  
Agreement No.: 1532-91-SPTC, R1532CB07  
Addendum No.: 1

Location: Lincoln Street (Phoenix)  
AR/DOT No.: 741-492-D  
RR M.P.: 905.58

Company's Name Union Pacific Railroad Company  
Address 2073 East Jade Drive, Chandler, AZ 85286

**A. G. CONTRACT NO. P001-2009-001421**

Company hereby agrees to modify the existing referenced agreement and to do the work hereinafter set forth for Department of Transportation in accordance with the original agreement, the modified provisions of this form and of the attached sheets, if any, and Company agrees to receive and accept as full compensation therefor the payment provided in the agreement as modified herein.

**WHEREAS:** Agreement No. 1532-91-SPTC authorized construction on July 18, 2007 and provides \$167,029.00 to install a concrete crossing surface, according to the estimate: and

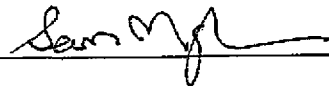
**WHEREAS:** By letter dated June 19, 2008, the Union Pacific Railroad Company advised the Arizona Department of Transportation that their current estimate requires an additional \$347,210.00 to install warning devices, according to the attachments. The estimate total is \$514,239.00; now

**THEREFORE:** The parties hereto agree that Agreement No. 1532-91-SPTC is hereby amended to provide an additional \$347,210.00, according to the attachments, for a revised estimate total of \$514,239.00. All other provisions of Agreement No. 1532-91-SPTC shall remain unabrogated.

The Department of Transportation hereby agrees to the terms as above set forth, and hereby agrees to pay same provided, that by mutual consent this agreement may be modified or terminated at any time.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

ARIZONA DEPARTMENT OF TRANSPORTATION



Sam Maroufkhani  
Deputy State Engineer, Development

Date 05-18-10


UNION PACIFIC RAILROAD COMPANY

By   
**AVP ENGINEERING**

Date 12/19/08

Recommended by: \_\_\_\_\_  
Bruce Vana, P.E., Engineer-Manager  
Utility & Railroad Engineering Section

APPROVED ON 10/07/00 @ A

APPROVED  
  
Assistant Attorney General  
Attorney for Department  
of Transportation  
Date 4/12/09



DATE: 2008-06-19

ESTIMATE OF MATERIAL AND FORCE ACCOUNT WORK  
BY THE  
UNION PACIFIC RAILROAD

THIS ESTIMATE GOOD FOR 6 MONTHS EXPIRATION DATE IS :2008-12-19

DESCRIPTION OF WORK:  
INSTALL LED CANTILEVER SIGNALS, AC/DC CIRCUITS IN NEW CABIN AT  
6TH & LINCOLN IN PHOENIX, AZ: M.P. 905.58  
SIGNAL PROJECT MANAGER: RUDY BURDEN 935-7680  
RAILROAD TO PERFORM ALL WORK / COST DISTRIBUTED AS FOLLOWS:  
SIGNAL - FEDERAL GOVERNMENT 100%

RID: 52160 AWO: 53347 ME, SUBDIV: 905.58, PHOENIX  
SERVICE UNIT: 16 CITY: PHOENIX STATE: AZ

DESCRIPTION	QTY	UNIT	LABOR	MATERIAL	RECOLL	UPRR	TOTAL
ENGINEERING WORK							
ENGINEERING			20000		20000		20000
FLAGGING			10000		10000		10000
LABOR ADDITIVE 105.61%			36715		36715		36715
SIG-HRY XRG			4765		4765		4765
TOTAL ENGINEERING			71480		71480		71480
SIGNAL WORK							
BILL PREP			900		900		900
CONTINGENCIES				59791	59791		59791
LABOR ADDITIVE 105.61%			50066		50066		50066
METER SERVICE				12000	12000		12000
PERSONAL EXPENSES				35625	35625		35625
SALES TAX				2329	2329		2329
SIGNAL			46507	58245	104752		104752
TRANSPORTATION CHARGES				3728	3728		3728
WZ TRAFFIC CONTROL				6539	6539		6539
TOTAL SIGNAL			97473	178257	275730		275730
LABOR/MATERIAL EXPENSE			168953	178257			
RECOLLECTIBLE/UPRR EXPENSE					347210	0	
ESTIMATED PROJECT COST							347210
EXISTING REUSEABLE MATERIAL CREDIT					0		
SALVAGE NONREUSEABLE MATERIAL CREDIT					0		
RECOLLECTIBLE LESS CREDITS							

THE ABOVE FIGURES ARE ESTIMATES ONLY AND SUBJECT TO FLUCTUATION. IN THE EVENT OF  
AN INCREASE OR DECREASE IN THE COST OR QUANTITY OF MATERIAL OR LABOR REQUIRED,  
UPRR WILL BILL FOR ACTUAL CONSTRUCTION COSTS AT THE CURRENT EFFECTIVE RATE.

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. 1532-92-SPTC  
Addendum No. 1  
Attachment 2 of 10

FORM 30-1  
WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 01 MORE

RAILROAD: UPRR CO.  
LOCATION: PHOENIX, AZ, 6TH & LINCOLN, PHOENIX SUB.  
DEPARTMENT: ENGINEERING SERVICES SERVICE UNIT: 16

PROJ NO: 52160  
A.W.O. NO: 53347  
W.O. NO:  
B.I. NO: 05EN10  
STATE: AZ  
VAL SEC: 0221

-----  
INSTALL LED CANTILEVER SIGNALS, AC/DC CIRCUITS IN NEW CABIN AT  
6TH & LINCOLN IN PHOENIX, AZ. M.P. 905.58  
SIGNAL PROJECT MANAGER: RUDY BURDEN 935-7680  
RAILROAD TO PERFORM ALL WORK / COST DISTRIBUTED AS FOLLOWS:  
SIGNAL - FEDERAL GOVERNMENT 100%

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. . 1532-92-SPTC  
Addendum No. 1  
Attachment 3 of 10

FORM 30-1  
WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 02 MORE

RAILROAD: UPRR CO.  
LOCATION: PHOENIX, AZ, 6TH & LINCOLN, PHOENIX SUB.  
DEPARTMENT: ENGINEERING SERVICES

PROJ NO: 52160  
A.W.O. NO: 53347  
W.O. NO:  
B.I. NO: 05EN10  
STATE: AZ  
VAL SEC: 0221

-----  
SCOPE OF WORK

PROJECT NUMBER	VAL SEC	STATE	M.P. FROM	M.P. TO	SEGMENT	JOINT FACILITY
52160	0221	AZ	905.58	905.58	4984	

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. 1532-92-SPTC  
Addendum No. 1  
Attachment 4 of 10

FORM 30-1  
 WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 03 MORE

RAILROAD: UPRR CO.  
 LOCATION: PHOENIX, AZ, 6TH & LINCOLN, PHOENIX SUB.  
 DEPARTMENT: ENGINEERING SERVICES

PROJ NO: 52160  
 A.W.O. NO: 53347  
 W.O. NO:  
 B.I. NO: 05EN10  
 STATE: AZ  
 VAL SEC: 0221

LABOR PLAN

GANG TYPE	GANG TYPE DESCRIPTION	GANG NUMBER NBR IN GANG	WORK CODE	WORK DESCRIPTION	GANG DAYS ALLOWED	DIRECT LABOR \$
SIGC05	SIGNAL 5 MAN G	0 5	34004	SIG GENERAL	30.00	29373.00
SIG005	5 PERSON FOR S	0 5	34004	SIG GENERAL	16.50	16155.15
SIG005	5 PERSON FOR S	0 5	34007	SIG-GEN DIS	1.00	979.10
SUB-TOTAL					17.50	17134.25
TOTAL						46,507.25

TRACS No. 0940 MA PHX SR061 01C  
 Project No. STP -000-6(052)P  
 Agreement No. . 1532-92-SPTC  
 Addendum No. 1  
 Attachment 5 of 10

FORM 30-1  
WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 04 MORE

RAILROAD: UPRR CO.  
LOCATION: PHOENIX, AZ, 6TH & LINCOLN, PHOENIX SUB.  
DEPARTMENT: ENGINEERING SERVICES

PROJ NO: 52160  
A.W.O. NO: 53347  
W.O. NO:  
B.I. NO: 05EN10  
STATE: AZ  
VAL SEC: 0221

STOCK MATERIAL PLAN

ITEM NUMBER	ITEM DESCRIPTION	UNIT COST	QTY	UN	DIRECT MATEL \$
02040420	BATTERY, GNB, 75A9 OR 50A13, ABSOLY	170.73	6	EA	1024
02040660	BATTERY, GNB, 75A23 OR 50A27, ABSO	302.29	7	EA	2116
09011240	CABLE TIE, NYLON 1 1/8" MAX. DIA	0.02	200	EA	4
09011980	CABLE TIE, NYLON 3 1/2" MAX. DIA	0.12	20	EA	2
09014950	CIRCUIT BRKR, 120/240V 30A 3 POLE	14.60	1	EA	15
09015690	CIRCUIT BREAKER, 120/240V 30A AC	5.97	1	EA	6
09054360	RELAY, GEN PURPOSE 120V. TAB 856	4.67	1	EA	5
09057650	SOCKET, P-B 27E122 TAB 836A & 856	2.05	1	EA	2
09065700	TAPE, ELECTRICAL PLASTIC	2.53	2	RL	5
09066980	TERMINAL, SPADE, 10-12 WIRE, #8 STUD	0.15	16	EA	2
09137100	TERM LOG 3/16 CABLE-1/4 POST 2412	0.55	30	EA	17
09215100	33456, TERMINAL, RING TONGUE AMP	0.19	44	EA	8
09224750	216-108 TERMINAL, FERRULE, N	0.05	20	EA	1
09224800	216-104 TERMINAL, FERRULE, W	0.02	50	EA	1
09250350	TERMINAL, #16-14 #8 SPADE	0.07	35	EA	2
09261420	321524-1 TERMINAL, TEST 16-22 A	1.61	4	EA	6
09261570	321527-1 TERMINAL, TEST	1.62	15	EA	24
09401140	ADAPTER, 4 INCH CARLON PLASTIC	3.29	2	EA	7
09409820	BUSHING, 4" PLASTIC, INSULATING	0.62	2	EA	2
09424920	CONDUIT, 4", PVC, TYPE 40	2.15	110	LF	237
09467930	LOCKNUT, 4 INCH, GALVANIZED	5.19	2	EA	10
09844170	GROUND ROD, 5/8 INCH X 8 FEET	7.26	8	EA	58
09846750	GRND. ROD CONN. 4WAY GNESEBET.	5.04	8	EA	40
09908540	WIRE, #5 AWG 1 COND COPPER, SOLID	6.42	200	LF	84
09912200	WIRE #6 AWG 2 COND 500' BOLL SHIELD	1.67	300	LF	501
09913200	WIRE, #6, 5 COND 500' BOLL SHIELDED	3.11	1000	LF	3110
09915610	WIRE #6 AWG 1 COND COPPER, STRAN	0.52	170	LF	88
09930550	WIRE #10 AWG 1 COND COPPER, STRAN	0.20	3280	LF	656
09932310	WIRE #10 AWG 1 COND COPPER, TWIST	0.46	500	LF	230
09950090	WIRE #16 AWG 1 COND COPPER, STRAN	0.10	500	LF	50
09976180	WIRE #22, TW. PE. BULDEN #8761	0.11	20	LF	2
13547870	SHEET METAL SCREW, #10 X 1 INCH	1.47	1	SK	1
13552450	SHEET METAL SCREW, #12 X 3/4"	2.09	2	SK	4
13553150	SHEET METAL SCREW #12 X 1"	3.04	2	SK	6
17061400	PAIDLOCK, SIGNAL, WITHOUT KEY, AMERIC	14.84	5	EA	74
28033210	CARTON, 39 1/8"L X 23 1/4"W X 17	4.94	1	EA	5
28033230	CARTON, 47 3/8"L X 39 1/2"W X 18"	11.07	1	EA	11
28041880	PALLET, 48 X 40 INCH 2/WAY	8.41	2	EA	17
35040020	PLASTER OF PARIS, #DAP 10308	2.79	1	EA	3
39340220	STEN, HIGHWAY CROSSING	50.00	2	EA	100

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. 1532-92-SPTC  
Addendum No. 1  
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FORM 30-1  
WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 05 MORE

RAILROAD: UPRR CO.  
LOCATION: PHOENIX, AZ, 5TH & LINCOLN, PHOENIX SUB.  
DEPARTMENT: ENGINEERING SERVICES

PROJ NO: 52160  
A.W.O. NO: 53347  
W.O. NO:  
B.I. NO: 05EN10  
STATE: AZ  
VAL SEC: 0221

52001370	SURGE PROTECTOR SP20-2A TAB 585	66.14	2 EA	132
52003630	POWER CABLE, CABIN TO GENERATOR -	148.23	1 EA	148
52005700	BOND WIRE, 7 STRANDS 100 LF. ROLL	0.78	100 LF	78
52016830	WIRE DUCT, 2X3	8.44	11 EA	93
52016940	WIRE DUCT, 3X3	9.82	2 EA	20
52017510	WIRE DUCT COVER 2"X6"	1.84	11 EA	20
52017620	WIRE DUCT COVER 3"X6"	2.71	2 EA	5
52018500	DIODE, MODEL 217-D TAB 535	114.01	1 EA	114
52019560	EQUALIZER, N.D. TAB 583	8.76	9 EA	79
52019740	FOUNDATION, CANT, PRECAST, 16 BOLT.	5562.45	3 EA	16687
52025240	HOUSE, 6X6, SIGNAL KING	4975.69	1 EA	4976
52027350	CLIP BOARD - FOR SIGNAL PRINTS	8.02	1 EA	8
52027430	STEP BOX	16.25	1 EA	16
52028420	LIGHTNING ARRESTOR, CLR-COMM TAB 3	6.71	19 EA	127
52029780	LIGHTNING ARR. HD TAB 582 W/O BASE	9.36	2 EA	19
52030010	LIGHTNING ARRESTOR CONN. STRIP	4.93	2 EA	8
52039210	RECTIFIER, 20EC, 12V. TABS 75	273.99	1 EA	274
52039390	RECTIFIER, 40EC, 12V. TABS 77	370.23	1 EA	370
52068650	TERMINAL, #5 - 5 WIRE - RING TYPE	0.16	55 EA	9
52070010	TERMINAL, #12-10 WIRE, RING TONGUE	0.08	450 EA	36
52071600	TERMINAL, #20-16 WIRE, RING TONGUE	0.07	150 EA	12
52072280	TERMINAL BLOCK, SIGNAL 2' POST BAK	3.61	17 EA	61
52072740	TERMINAL BLOCK, SIGNAL 12 POST 6	15.66	1 EA	16
52072960	TERMINAL BLOCK, SIGNAL 12 POST	12.67	12 EA	152
52074550	TEST LINK, INSULATED ASSEMBLY TAB	0.66	19 EA	13
52074660	SWITCH, MCKEN TAB 82	13.90	1 EA	14
52079550	WIRE TAG, PLASTIC - WHITE	0.13	100 EA	13
52079560	MARKING PEN (FOR WHITE TAGS)	1.95	1 EA	2
52263600	SURGE ARRESTOR, METER LOOP.	28.46	1 EA	28
52276600	CROSSING CTRLE 34 40AMP	4152.84	1 EA	4152
52707280	RELAY, TAB 882, BLEN, TK. #52-120	506.54	1 EA	507
52776370	RELAY PLUGBOARD, GRS B1, TAB 900	32.31	1 EA	31
52777970	FLAG TERMINAL, FOR GRS, 14-10	0.80	10 EA	8
52778110	FLAG TERMINAL, FOR GRS, 20-16	0.71	10 EA	7
52779280	RELAY TEST TERM, GRS B1	6.54	1 EA	7
52907710	CANTILEVER - 21'-23" KING SIGNAL	6600.00	2 EA	13200
52907750	CANTILEVER - 23'-35" KING SIGNAL	7800.00	1 EA	7800
52973600	POK IND. TAB 925	100.00	1 EA	100
53311490	EXTRACTOR FOR "B" TERMINALS P3-308	9.36	1 EA	9
53311510	TEST NUT WRENCH. GRS #P3-320	33.01	1 EA	33
53648010	INSULATING CAP & SHIELD ASSY.	1.97	4 EA	6
53908460	RPD 120/240DPL SURGE PROTECTOR	267.43	1 EA	267
53954500	180429-000 BOOTLEG KIT	49.19	1 EA	49

TOTAL

56,243

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. 1532-92-SPTC  
Addendum No. 1  
Attachment 7 of 10

FORM 30-1  
WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 06 MORE

RAILROAD: UPR CO.  
LOCATION: PHOENIX, AZ, 6TH & LINCOLN, PHOENIX SUB.  
DEPARTMENT: ENGINEERING SERVICES

PROJ NO: 52160  
A.W.O. NO: 53347  
W.O. NO:  
B.I. NO: 05EM10  
STATE: AZ  
VAL SEC: 0221

JOB NO.	ACCT NO.	DESCRIPTION	QTY	UNIT	COST	LABOR	MATERIAL	TOTAL P.I.	CHRGABLE O.E.	TO OTHER
		VAL SEC: 0221								
		** NON JOINT FACILITY **								
		** MAIN LINE **								
1	709	ENGINEERING				20000				
		SIG-HWY XNG W/C 34001				4765				
		FLAGGING W/C 84002				10000				
		LABOR ADDITIVE 105.61%				36715				
		JOB TOTAL				71480				71480
6	027	SIGNAL					58245			
		SIG-HWY XNG W/C 34004	232	MD		45528				
		BILL PREP				900				
		WE TRAFFIC CONTROL					6539			
		PERSONAL EXPENSES					34875			
		METER SERVICE					12000			
		TRANSPORTATION CHARGES					3728			
		CONTINGENCIES					52774			
		CONTRACT					7017			
		SALES TAX					2329			
		LABOR ADDITIVE 105.61%				49032				
		JOB TOTAL				95460	177507			272957
8	709	STATE OF AZ								
		SIGNAL								
		SIG-HWY XNG W/C 34007	5	MD		979				
		PERSONAL EXPENSES					750			
		LABOR ADDITIVE 105.61%				2024				
		JOB TOTAL				2013	750			2763
		PROJECT TOTALS 52160				168953	178257			347210

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. 1532-92-SPTC  
Addendum No. 1  
Attachment 8 of 10

PRCJ NO: 52160  
A.W.O. NO: 53347  
W.O. NO:  
B.I. NO: 05EN10  
STATE: AZ  
VAL SEC: 0221

ESTIMATED BY: XCOT249    CLE#:    172420    00    TOTAL ESTIMATED EXPENITURES:    \$347,210  
DATE: 10-25-2007    APPROVED BY:    APPROVED BY:

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. . 1532-92-SPTC  
Addendum No. 1  
Attachment 9 of 10



FORM 30-2  
WORK ORDER AUTHORITY-DETAIL OF ESTIMATED CREDITS

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RAILROAD: UPRR CO.  
LOCATION: PHOENIX, AZ, 6TH & LINCOLN, PHOENIX SUB.  
DEPARTMENT: ENGINEERING SERVICES

PROJ NO: 52160  
A.W.O. NO: 53347  
W.O. NO:  
B.I. NO: 05EN10  
STATE: AZ  
VAL SEC: 0221

JOB ACCT NO. NO.	DESCRIPTION	SALVAGE	LEDGER VALUE
1	VAL SEC: 0221	1 1 1	1
1	** MAIN LINE **	1 1 1	1
900	RET. SIGNAL		

=====

ESTIMATED CREDIT TO 'RESERVE FOR ROAD PROPERTY TO BE RETIRED AND REPLACED'	\$
ESTIMATED CREDIT TO 'RESERVE PROPERTY RETIRED AND NOT TO BE REPLACED'	\$
ESTIMATED CREDIT TO 'EQUIPMENT RETIRED'	\$
ESTIMATED CREDIT TO	\$

=====

ESTIMATED BY: XCOT249 CID#: 172420 000

DATE: 10-25-2007

APPROVED BY:

APPROVED BY:

TRACS No. 0940 MA PHX SR061 01C  
Project No. STP -000-6(052)P  
Agreement No. . 1532-92-SPTC  
Addendum No. 1  
Attachment 10 of 10